EPSON

Material Safety Data Sheet

1. Article and Corporate Identification

Product: Epson Ink Cartridge T544400
For use with Epson Stylus Pro 4000 & 9600
Printers

Distributor:
Epson America, Inc.
3840 Kilroy Airport Way
Long Beach, CA 90806
United States
Tel: 562-276-1369
Fax: 562-997-5799

The **EPSON** T544400 Ink Cartridge

2. Composition Information

This is an aqueous ink formulation

Ink Composition	**CAS No.**	% By Weight
Proprietary dyes and pigments	-	<7%
Ethylene glycol	107-21-1	<4%
Proprietary organic materials	-	5 -10%
Glycerols	-	10 –15%
Water	7732-18-5	balance

3. Hazard Identification

3.1 Emergency *Overview:* Ink component is a light yellow liquid that may cause eye irritation. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

3.2 Potential Health *Effects*:

Eyes: Ink contact with eye may be mildly irritating. See Section 11 for Toxicology.

Skin: Ink contact with skin may cause irritation, swelling, or redness. It is not expected to cause an allergic skin reaction. See Section 11 for Toxicology.

Inhalation: Intentional exposure to ink vapors may cause respiratory irritation. See Section 11 for Toxicology.

Ingestion: May cause upset stomach. See Section 11 for Toxicology.

4. First Aid Measures

4.1 *Eyes*: Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

4.2 *Skin*: Wash surface areas with soap and water. Wash soiled clothing before rewearing. Seek medical attention if irritation continues.

4.3 *Inhalation*: Remove subject to ventilated fresh air. Consult physician if necessary

4.4 *Ingestion*: Seek medical attention if stomach continues to be upset.

5. Fire Fighting Measures

5.1 *Flammability*: Flash point is greater than 230 deg. F / 110 deg. C (closed cup in accordance with ASTM D3278)

5.2 *Extinguishing Media*: Dry chemical or carbon dioxide

5.3 *Fire Fighting Instructions*: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6. Accidental Release Measures

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Use proper ventilation. Do not dispose of waste to the sewer. No eye or skin protection required during clean-up. Wash hands with soap and water.

7. Precautions for Safe Handling and Use

Keep out of reach of children and do not drink ink. Do not store the cartridge in a high or freezing temperatures. Keep cartridge out of direct sunlight. Do not dismantle cartridge. Do not store cartridges with oxidizing agents or explosives. Make sure cartridge is dry before insertion into printer housing.

8. Exposure Controls and Personal Protection

8.1 *Engineering Controls*: None required

8.2 *Exposure Controls*: None required

8.3 *Personal Protection*: None required when cartridges are used as intended

9. Physical and Chemical Properties of Ink Formulation

Appearance:	Yellow Liquid
Odor:	None
pH:	9.0 – 10.0
Boiling point:	Approximately 212 deg. F / 100 deg. C
Freezing point:	Less than 32 deg. F / O deg. C
Melting point:	Less than 32 deg. F / O deg. C
Flash point:	Greater than 230 deg. F / 110 deg. C (closed cup, ASTM D3278)
Autoflammability:	None

Explosive properties:	None
Oxidizing properties:	None
Vapor density:	Greater than 1 (air=1)
Relative density:	1.07 at 68 deg. F / 20 deg. C
Solubility in water:	Complete
Solubility in fat:	No data available
Partition coefficient:	No data available
Viscosity:	Less than 5mPa-s

10. Stability and Reactivity

Stability:	Stable
Hazardous polymerization:	Will not occur
Hazard decomposition products:	None
Incompatible materials:	Oxidizers and explosives

11. Toxicology and Health Hazards

Routes Of Overexposure: Eye, skin, inhalation, and oral

Acute Health Hazards:

- Overexposure of eye surface to ink may be mildly irritating
- Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation
- Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: None known

Carcinogenicity: None known

Toxicity Data:

Oral LD50	Dermal LD50	Inhalant LC50	OSHA Regulated?
>5000mg/kg(Rats)	>2000mg/kg(Rats)	Not Applicable	Not Established

12. Ecological Information

No data available on the adverse effects of this material on the environment

13. Disposal Considerations

Used and unused cartridges are not a federal RCRA hazardous waste. Disposal should be in accordance with federal, state, and local requirements.

14. Transportation Information

Not regulated as a Hazardous Material by DOT, IMO, or IATA

15. Regulatory Considerations

U.S. DOT Hazard Class Regulated?	NO
U.S. OSHA Inhalation Hazard?	NO
In U.S., NFPA/HMIS Hazard Rating:	Health (1), Flammability (1), Instability/Reactivity (0), Other (0)

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16. Other Information

This MSDS adheres to U.S. regulatory requirements and standards and may not meet the regulatory requirements in other locations.

This is a revised Material Safety Data Sheet which replaces all prior U.S. MSDS for this product.

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. Epson does not warrant the completeness or accuracy of the information contained herein. It is subject to revision from time to time.

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